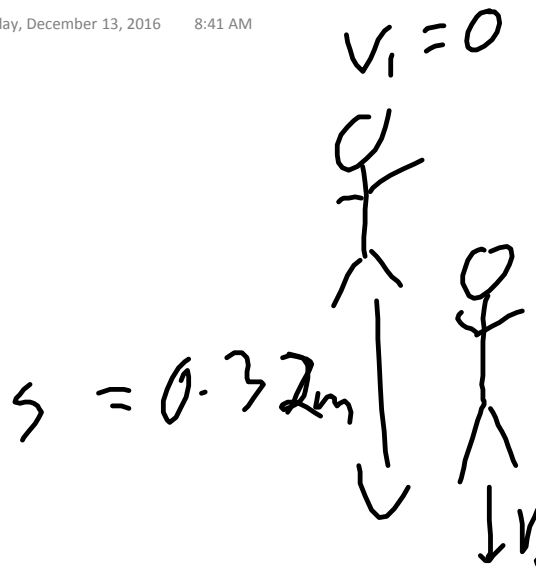

$$F_{net} = \frac{\Delta p}{\Delta t}$$

$$v^2 = u^2 + 2as$$

$$v^2 = 0 + 2(9.81 m/s^2)(0.32m)$$

$$v_2 = \sqrt{2(9.8)(0.32)} = 2.5 m/s$$

$$F_{net} = ma = \frac{\Delta p}{\Delta t} = \sum F$$

$$\frac{\Delta p}{\Delta t} = F_N - F_g$$

$$0 - \frac{(60kg)(-2.5 m/s)}{0.05s} = F_N - mg$$

F_{net}

$$|\vec{F}_N| = 3000N + 60kg\left(9.81\frac{N}{kg}\right)$$

$$= 3588.6N = 3.6 \times 10^3 N$$

$$588.6N$$

$$\frac{3000N}{588.6N} = \text{about } 5\times$$

1. 4 points - physics of driving in the snow
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